

## Pin diode

## RN741V

## ●Applications

Attenuator

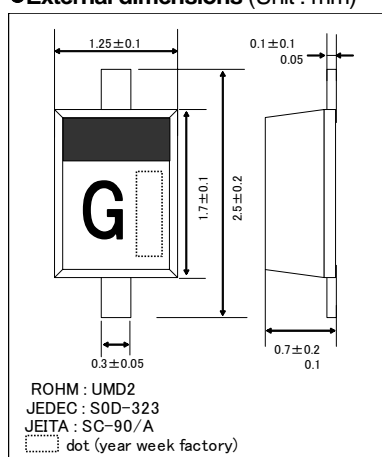
## ●Features

- 1) Small mold type. (UMD2)
- 2) Low capacitance

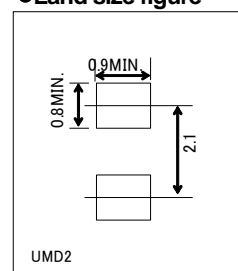
## ●Construction

Silicon epitaxial planar

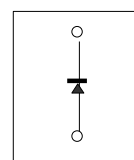
## ●External dimensions (Unit : mm)



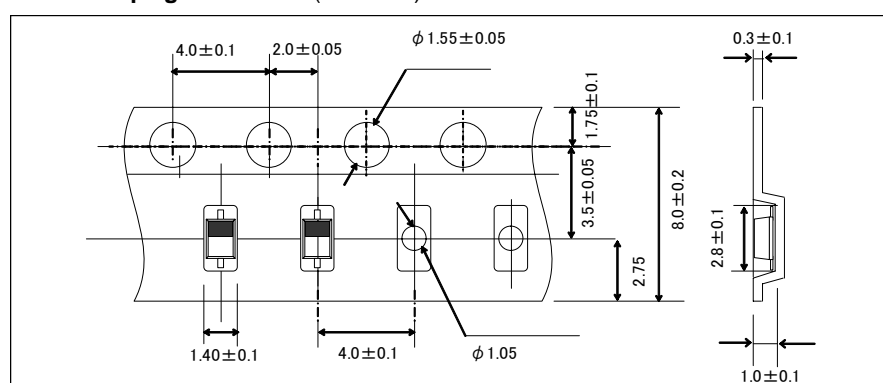
## ●Land size figure



## ●Structure



## ●Taping dimensions (Unit : mm)



## ●Absolute maximum ratings (Ta=25°C)

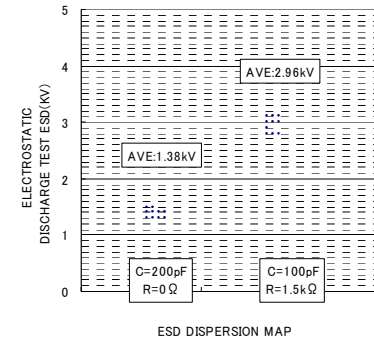
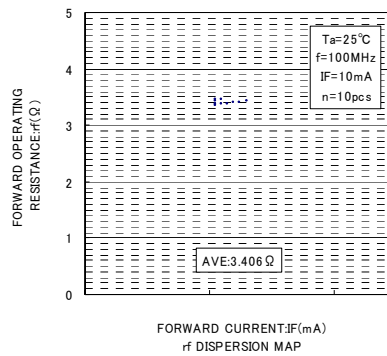
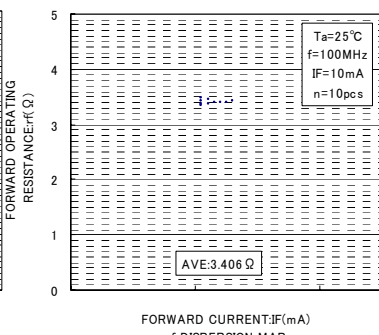
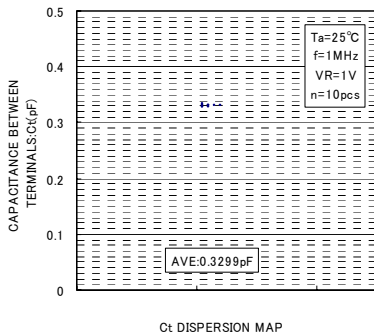
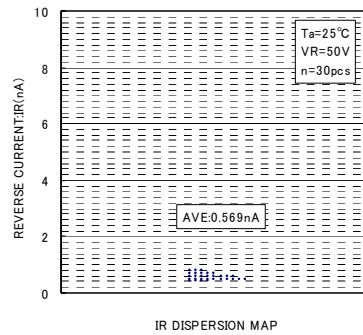
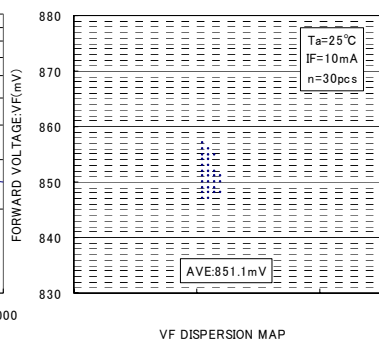
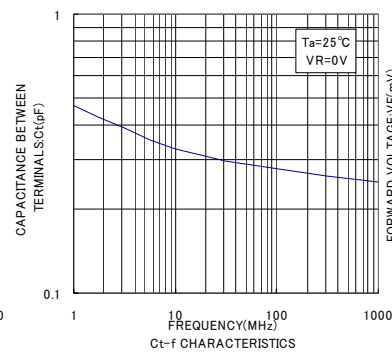
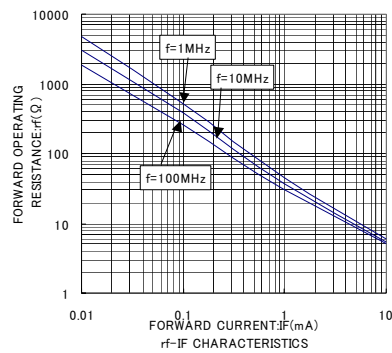
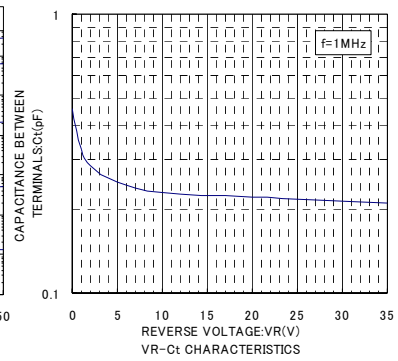
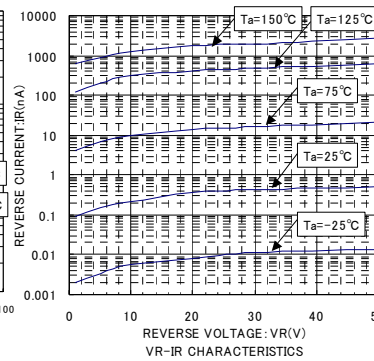
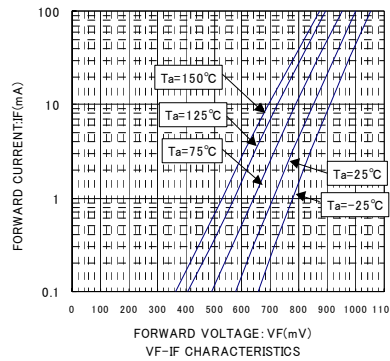
| Parameter            | Symbol    | Limits      | Unit |
|----------------------|-----------|-------------|------|
| Reverse voltage      | $V_R$     | 50          | V    |
| Reverse current      | $I_F$     | 50          | mA   |
| Junction temperature | $T_j$     | 150         | °C   |
| Storage temperature  | $T_{stg}$ | -55 to +150 | °C   |

## ●Electrical characteristic (Ta=25°C)

| Parameter                   | Symbol | Min. | Typ. | Max. | Unit | Conditions                            |
|-----------------------------|--------|------|------|------|------|---------------------------------------|
| Forward voltage             | $V_F$  | -    | -    | 1    | V    | $I_F=10\text{mA}$                     |
| Reverse current             | $I_R$  | -    | -    | 0.1  | μA   | $V_R=50\text{V}$                      |
| Capacitance between current | $C_t$  | -    | -    | 0.4  | pF   | $V_R=35\text{V}$ , $f=1\text{MHz}$    |
| High frequency resistance   | $R_f$  | -    | -    | 10   | Ω    | $I_F=10\text{mA}$ , $f=100\text{MHz}$ |

## Diodes

## ●Electrical characteristic curves



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